

- SIMON, E. W.: The effect of digitonin on the cytochrome *c* oxidase activity of plant mitochondria. — *Biochem. J.* **69** : 67–74, 1958.
- TANNER, G. J., COPELAND, L., TURNER, J. F.: Subcellular localization of hexose kinases in pea stems: mitochondrial hexokinase. — *Plant Physiol.* **72** : 659–663, 1983.
- TURNER, J. F., COPELAND, L.: Hexokinase II of pea seeds. — *Plant Physiol.* **68** : 1123–1127, 1981.
- TURNER, J. F., TURNER, D. H.: The regulation of glycolysis and the pentose phosphate pathway. — In: DAVIES, D. D. (ed.): *The Biochemistry of Plants*, Vol. 2. Academic Press, New York—London—Toronto—Sydney—San Francisco 1980.

BOOK REVIEW

WINNER, W. E., MOONEY, H. A., GOLDSTEIN, R. A. (ed.): *SULFUR DIOXIDE AND VEGETATION. PHYSIOLOGY, ECOLOGY, AND POLICY ISSUES*. — Stanford University Press, Stanford 1985. 593 pp., US \$ 65.00.

This book summarizes the lectures and discussions presented at the symposium held from November 28 to December 2, 1982 at Asilomar, California. This workshop was intended a) to summarize current knowledge of the effects of SO₂ on the productivity of plants, b) to integrate the various research approaches — from biochemical to ecological — used to determine the impact of SO₂ on plant productivity, c) to assess the accuracy of the technology currently used to study SO₂ effects on plant productivity and d) to consider present pollution management issues and to establish research priorities for the future.

The volume consists of Introduction and five parts. The first part "Issues of pollution management" (4 papers) brings reviews of the issues related to managing air quality and sets the stage for the discussion of the effects of SO₂ on plant productivity. The second part "SO₂ effects on plant metabolism" (7 papers) deals with SO₂ uptake and transport, effects on stomatal behaviour, photosynthesis and plant growth, stromal and thylakoid function, CO₂ metabolism, nonphotosynthetic processes in plants and intraspecific variability in metabolic responses to SO₂. The third part "SO₂ effects on plant growth" (10 papers) brings information on SO₂ effects on grass species, dicot crops, tree and native plant growth, on combined effects of SO₂ and NO_x or O₃ on plant responses to SO₂ and CO₂, growth/environment interactions in SO₂ responses of grasses, genetic variability in growth responses to SO₂ and on modelling effects of SO₂ on the productivity and growth of plants. The fourth part "SO₂ effects on plant communities" (7 papers) is devoted to sulfur pathways from the atmosphere to plant and soil, deposition of SO₂ onto plant canopies, to SO₂ effects on forests, agricultural systems, plant community structure and function and to modelling SO₂ effects on forest growth and community dynamics. The concluding part "Summary" consists of two papers. The first reviews methods and techniques used in air-pollution studies, the second summarises important concepts from the preceding chapters and identifies conceptual cross-links between related topics.

The book as a whole brings a vast body of up-to-date information on various aspects of SO₂ effect on plants. It is traditionally very well printed. The concentration of references cited in all chapters in the bibliography at the end of the book is somewhat unusual, but useful as it prevents the repetition of references in several chapters and provides the reader with a synoptical bibliographical survey. The index contains subject items and scientific names of plant species; the list of contributors includes short characteristics of the authors. There is no doubt that the book has raised great interest among those working in this field and concerned in environmental protection.